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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael S. Freund, et al.

Art Unit : 2856

Serial No. : 09/963,788

Examiner : Unknown

Filed : September 25, 2001

Title : NANOPARTICLE-BASED SENSORS FOR DETECTING ANALYTES IN FLUIDS

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed before the receipt of a first Office action on the merits.  
Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 7/24/02

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Patricia Wiggins

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06618-707001	Application No. 09/963,788
	Applicant Michael S. Freund, et al.		
	Filing Date September 25, 2001	Group Art Unit 2856	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,221,673 B1	Apr. 24, 2001	Snow et al.	436	149	
	AB						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
	AC						Yes	No

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AD	Brust, et al., "Synthesis of Thiol-derivatised Gold Nanoparticles in a Two-phase Liquid-Liquid System", <u>J. Chem. Soc., Chem. Commun.</u> , No. 7, pp.801-802, April, 1994
	AE	Elghanian, et al., "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles", <u>Science</u> , Vol. 277, pp. 1078-1081, August, 1997
	AF	Green et al., "Three-Dimensional Monolayers: Nanometer-Sized Electrodes of Alkanethiolate-Stabilized Gold Cluster Molecules", <u>J. Phys. Chem. B</u> , Vol. 101, pp. 2663-2668 (1997)
	AG	Henglein, Arnim, "Physicochemical Properties of Small Metal Particles in Solution: "Microelectrode" Reactions, Chemisorption, Composite Metal Particles, and the Atom-to-Metal Transition", <u>J. of Phys. Chem.</u> , Vol. 97, No. 21, pp. 5457-5471, February, 1993
	AH	Hostetler, et al., "Alkanethiolate Gold Cluster Molecules with Core Diameters from 1.5 to 5.2 nm: Core and Monolayer Properties as a Function of Core Size", <u>Langmuir</u> , Vol. 14, pp. 17-30 (1998)
	AI	Hostetler, et al., "Monolayers in Three Dimensions: Synthesis and Electrochemistry of - $\omega$ -functionalized Alkanethiolate-Stabilized Gold Cluster Compounds", <u>J. Am. Chem. Soc.</u> , Vol. 118, No. 17, pp. 4212-4213, May, 1996
	AJ	Ingram, et al., "Poly-hetero- $\omega$ -functionalized Alkanethiolate-Stabilized Gold Cluster Compounds", <u>J. Am. Chem. Soc.</u> , Vol. 119, No. 39, pp. 9175-9178, October, 1997
	AK	Lee, et al., "Electron Hopping and Electronic Conductivity in Monolayers of Alkanethiol-Stabilized Gold Nano-Clusters at the Air/Water Interface", <u>Israel Journal of Chemistry</u> , Vol. 37, Nos. 2-3, pp. 213-223, July, 1997
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	AN	Templeton, et al., "Reactivity of Monolayer-Protected Gold Cluster Molecules: Steric Effects", <u>J. Am. Chem. Soc.</u> , 120, pp. 1906-1911 (1998)
	AO	Zeiri, et al., Studies of Silver Organosols: Preparation, Characterization, and Cyanide-Induced Aggregation, <u>J. Phys. Chem.</u> , Vol. 96, No. 14, pp. 5908-5917, July, 1992

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	